

Title (en)
VTOL model aircraft

Title (de)
VTOL-Modellflugzeug

Title (fr)
Avion de modèle VTOL (décollage et atterrissage vertical)

Publication
EP 2353684 A3 20160113 (EN)

Application
EP 10191751 A 20101118

Priority
CN 201010004074 A 20100121

Abstract (en)
[origin: US2011177748A1] A toy model aircraft aims to imitate V-22 Osprey with high emulation by being providing with flight characteristics of V-22 Osprey at a shrunk size of a toy specification. The model aircraft of the invention includes a fuselage, two fixed wings extended outwards from two sides of the fuselage and a tail wing at the tail of the fuselage. Each fixed wing includes a propeller engine installed at a distal end thereof and a rotor. The two rotors of the propeller engines rotating in opposite directions, and the propeller engines are coupled to form an integrated body through a rotary axle mechanism connecting to the wings. The fuselage holds a rotary axle driving means to drive the rotary axle mechanism to rotate and the propeller engines at two ends of the rotary axle mechanism are rotated concurrently between the vertical direction and horizontal direction.

IPC 8 full level
A63H 27/00 (2006.01); **B64C 29/00** (2006.01)

CPC (source: EP US)
A63H 27/12 (2013.01 - EP US); **B64C 29/0033** (2013.01 - EP US)

Citation (search report)

- [X] US 6719244 B1 20040413 - GRESS GARY ROBERT [CA]
- [X] WO 2006022654 A1 20060302 - BELL HELICOPTER TEXTRON INC [US], et al
- [A] US 2006016930 A1 20060126 - PAK STEVE [US]
- [A] WO 2009095696 A2 20090806 - BRYANT ASHLEY CHRISTOPHER [GB]
- [A] EP 2062627 A1 20090527 - LUO ZHIHONG [CN]

Cited by
KR20190066398A; CN102295073A; EP4029780A1; US11831220B2; US11472544B2; US11772804B2; US11565803B2; EP4029779A1; US11390395B2; US11554859B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
US 2011177748 A1 20110721; CN 101837195 A 20100922; CN 101837195 B 20120208; EP 2353684 A2 20110810; EP 2353684 A3 20160113; EP 2353684 B1 20171004; HK 1143560 A1 20110107

DOCDB simple family (application)
US 88657710 A 20100921; CN 201010004074 A 20100121; EP 10191751 A 20101118; HK 10110119 A 20101028